

GenCore version 5.1.4.p5.4578  
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OM protein - protein search, using sw model

Run on: March 12, 2003, 00:09:41 ; Search time 24 Seconds  
(without alignments)  
1227.181 Million cell updates/sec

Title: US-10-046-433-40

Perfect score: 5506  
Sequence: 1 MABPGSHSLASARVGRTER.....LGRSNHLPRGLMDLTQCR 1001

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Issued\_Patents\_AA:\*  
1: /cgn2\_6/prodata/1/1aa/5A\_COMB.pep:\*  
2: /cgn2\_6/prodata/1/1aa/5B\_COMB.pep:\*  
3: /cgn2\_6/prodata/1/1aa/6A\_COMB.pep:\*  
4: /cgn2\_6/prodata/1/1aa/6B\_COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS\_COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/backfile1.pep:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	177.5	3.2	1193	2	US-08-400-159-10
2	177.5	3.2	1193	3	US-08-611-729A-10
3	172	3.1	1111	2	US-08-460-309-4
4	172	3.1	1111	2	US-08-125-077-4
5	167	3.0	610	6	5217870-2
6	164	3.0	610	1	US-08-365-470-3
7	164	3.0	610	3	US-09-209-668-19
8	164	3.0	610	4	US-09-009-490A-89
9	161.5	2.9	2523	4	US-08-185-432-18
10	161.5	2.9	2523	4	US-08-899-232-3
11	160.5	2.9	1111	1	US-08-317-450B-15
12	160.5	2.9	1111	4	US-08-800-593-15
13	160.5	2.9	1193	1	US-08-317-450B-13
14	160.5	2.9	1193	4	US-08-800-593-13
15	160	2.9	2526	1	US-08-185-432-17
16	160	2.9	2556	4	US-08-899-232-2
17	158	2.9	1010	4	US-08-882-046-7
18	158	2.9	1036	4	US-09-068-740A-6
19	158	2.9	1187	4	US-09-068-740A-7
20	158	2.9	1208	4	US-09-199-865-1
21	158	2.9	1208	2	US-08-400-159-6
22	158	2.9	1218	3	US-08-611-729A-6
23	158	2.9	1218	4	US-08-882-046-2
24	158	2.9	1218	4	US-09-214-278-7
25	158	2.9	1218	4	US-09-068-740A-11
26	156.5	2.8	3075	2	US-08-460-309-5
27	156.5	2.8	3075	2	US-08-125-077-5

28	156	2.8	1219	4	US-08-882-046-5	Sequence 5, Appl
29	155	2.8	998	2	US-08-449-645A-20	Sequence 20, Appl
30	155	2.8	998	2	US-08-702-367A-20	Sequence 20, Appl
31	155	2.8	998	5	PCT-US93-04681-20	Sequence 20, Appl
32	154.5	2.8	4544	1	US-08-469-486-52	Sequence 52, Appl
33	154.5	2.8	4544	2	US-08-469-658-52	Sequence 52, Appl
34	151	2.7	1148	4	US-08-882-046-4	Sequence 4, Appl
35	148	2.7	2703	1	US-08-185-432-19	Sequence 19, Appl
36	148	2.7	2703	4	US-08-899-232-4	Sequence 4, Appl
37	146.5	2.7	993	1	US-08-348-143-1	Sequence 1, Appl
38	146.5	2.7	993	1	US-08-571-785-1	Sequence 1, Appl
39	146.5	2.7	993	4	US-09-192-435-1	Sequence 1, Appl
40	146.5	2.7	993	4	US-09-558-340-1	Sequence 1, Appl
41	144.5	2.6	2471	1	US-08-185-432-16	Sequence 16, Appl
42	144.5	2.6	2471	1	US-08-083-530A-19	Sequence 19, Appl
43	144.5	2.6	2471	3	US-08-532-384-19	Sequence 19, Appl
44	144.5	2.6	2471	4	US-08-899-232-1	Sequence 1, Appl
45	141	2.6	2594	4	US-08-718-388-7	Sequence 7, Appl

#### ALIGNMENTS

RESULT 1  
US-08-400-159-10  
Sequence 10, Application US/08400159  
Patent No. 5869282  
GENERAL INFORMATION:  
APPLICANT: Ish-Horowitz, David  
APPLICANT: Henrique, Domingos M.P.  
APPLICANT: Lewis, Julian H.  
APPLICANT: Myat, Anna M.  
APPLICANT: Fleming, Robert J.  
APPLICANT: Aravanis-Tsakonas, Spyridon  
APPLICANT: Mann, Robert S.  
APPLICANT: Gray, Grace E.  
TITLE OF INVENTION: NUCLEOTIDE AND PROTEIN SEQUENCES OF THE  
TITLE OF INVENTION: SEPRATE GENE AND METHODS BASED THEREON  
NUMBER OF SEQUENCES: 20  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Pennie & Edmonds  
STREET: 1155 Avenue of the Americas  
CITY: New York  
STATE: New York  
COUNTRY: USA  
ZIP: 10036-2711  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/400,159  
FILING DATE: 07-MAR-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: Mirock, S. Leslie  
REGISTRATION NUMBER: 18,872  
REFERENCE/DOCKET NUMBER: 7326-029  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 790-9090  
TELEFAX: (212) 869-9741/8864  
TELEX: 66141 PENNIE  
INFORMATION FOR SEQ ID NO: 10:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1193 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-400-159-10  
Query Match 3.2%; Score 177.5; DB 2; Length 1193;  
Best Local Similarity 19.2%; Pred. No. 9.5e-07;

Matches 169; Conservative 67; Mismatches 267; Indels 377; Gaps 44;

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40  OCTGPELHACK-----ESEHYEYACDSTGSRMVAVPHPTGLCTSLPDPYKGT----- 89
210  OGCSFKHSGSTVPECRQYOGWGOYCDK-----CIPH-----PGCVHGTCIEPW 254
90  ECSFSCNAGEFLDMKDS-C---KPCAGRYSLGTGIRDEMD-ELPHGFASLSANMELD 144
255  QCLCETNMGGQLCDKDLNLCGTHPPCLNGTCSNTGP--DKYQCSCEPGYS--GONCEIA 310
145  DSAEST-----GNCSTSK-----WVRGDYIAFNDECTATLMYAVNLKSGSTV 189
311  EHACLSDPCHNGSGSCLSTSTGFEVCAPGMA--GPTCTDNIDDCSPNPGHGTGQDLVD 368
190  NFEYYPDSSITFEFFVONDQC---PNADSR-----WMKTEKGMEFHSVELN---- 236
369  GFKCICPPQWTKTQOLDANECEGKPCVANSNCRNLISGYCDDCTTGWSGHMCNDINIDC 428
237  RG-----NNVLYWRTAFSVMTKVPKPLVLRNIALTGVA-----YTSECF-- 276
429  RGQCGNGSGCRDLVNG-----YRCISPGYAGDHCEKDINECASN 468
277  PCKPGTYADKOGSSFKCLCPANSYSNKGTSCHQCD-----PDK 315
469  PCMNGGHQDDELNGFQCLCPAGFSGNLQDLIDYCEPNPCQNGAOCFNLMAMDFCNCPE 528
316  YSEKGS-----SCNVRPACT----- 331
529  YEGKNCSHLKDHCRTTPCEVIDSCIVAVASNSTPEGVRISSNVCGPHKCKSQAGKFT 588
332  -DKDYFYHTACD-----ANGETOL-----MYKMAKPKICSEDLGAVKLPAAGV 375
589  CECKNGFTGTGTCHEINIDCESNPCKNGTCTIDGVNSYKC-----ICSDGMEG----- 635
376  KTHCP-----PCNFG-----FT-----KTNNSTCQPCPYGYSNSGSDC 408
636  -TYCETNINDCSKPNCHNGTCRDLVNDPCECKNMGKKTCHSRDSCDEATCINNGETC 694
409  -----TRCPAGTEPRAVGEYKWMNTLPT-----NMETTVISGINFEKMGMTGWE----- 452
695  YDEGDTFCMCPAGWEGATCNIARNSSCPNCCHNGTGVVSGDSFTVCYCKGKMGCPCT 754
453  -----VAGDHIYTAGASDNDPMILTLVPGFRPPQSVADTENKEVARITFEFELISV 507
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508  NCELYFMWGVNSRINTPVETWKSGKOSYIIEENTTTSTTAFPORTTPEASRKTYN 567
794  N-----INECQSSPC-----AFGATCYDE----- 812
568  DVAKIYSINVTVMNGVASYC-----RPCALASDVSGSCTSCPAGYIDR 613
813  -----INGYRICIPPGRSRGCQCEVYTRPCF-----TSIRVWPDGAKMD 852
614  DSGTCHS-----CPNTIL---KAHQ--PYGVQACVP-----C 641
853  DONTQCLNGKWTGSKVWGMGPRPCTIHAAGHNECPAG--HACVPVKEHDFHTPCAAGVBC 911
642  GPGTKNNKTHSLCYNDCTFSRNTPTRTFNYNSALANTYT 681
912  WP-SNOQPVKTKCNSDSYQDNCANITTFENKEMAPGILT 950

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APPLICANT: Artavanis-Tsakonas, Spyridon  
 APPLICANT: Mann, Robert S.  
 APPLICANT: Gray, Grace E.  
 TITLE OF INVENTION: NUCLEOTIDE AND PROTEIN SEQUENCES OF THE  
 TITLE OF INVENTION: SERATE GENE AND METHODS BASED THEREON  
 NUMBER OF SEQUENCES: 20  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Pennie & Edmonds  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/611,729A  
 FILING DATE: 06-MAR-1996  
 CLASSIFICATION: 435  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Mistrock, S. Leslie  
 REGISTRATION NUMBER: 18,872  
 REFERENCE/DOCKET NUMBER: 7326-037  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEFAX: (212) 869-9741/8864  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 10:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 1193 amino acids  
 TYPE: amino acid  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 US-08-611-729A-10

Query Match 3.2%; Score 177.5; DB 3; Length 1193;  
 Best Local Similarity 19.2%; Pred. No. 9.5e-07;  
 Matches 169; Conservative 67; Mismatches 267; Indels 377; Gaps 44;

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40  OCTGPELHACK-----ESEHYEYACDSTGSRMVAVPHPTGLCTSLPDPYKGT----- 89
210  OGCSFKHSGSTVPECRQYOGWGOYCDK-----CIPH-----PGCVHGTCIEPW 254
90  ECSFSCNAGEFLDMKDS-C---KPCAGRYSLGTGIRDEMD-ELPHGFASLSANMELD 144
255  QCLCETNMGGQLCDKDLNLCGTHPPCLNGTCSNTGP--DKYQCSCEPGYS--GONCEIA 310
145  DSAEST-----GNCSTSK-----WVRGDYIAFNDECTATLMYAVNLKSGSTV 189
311  EHACLSDPCHNGSGSCLSTSTGFEVCAPGMA--GPTCTDNIDDCSPNPGHGTGQDLVD 368
190  NFEYYPDSSITFEFFVONDQC---PNADSR-----WMKTEKGMEFHSVELN---- 236
369  GFKCICPPQWTKTQOLDANECEGKPCVANSNCRNLISGYCDDCTTGWSGHMCNDINIDC 428
237  RG-----NNVLYWRTAFSVMTKVPKPLVLRNIALTGVA-----YTSECF-- 276
429  RGQCGNGSGCRDLVNG-----YRCISPGYAGDHCEKDINECASN 468
277  PCKPGTYADKOGSSFKCLCPANSYSNKGTSCHQCD-----PDK 315
469  PCMNGGHQDDELNGFQCLCPAGFSGNLQDLIDYCEPNPCQNGAOCFNLMAMDFCNCPE 528
316  YSEKGS-----SCNVRPACT----- 331
529  YEGKNCSHLKDHCRTTPCEVIDSCIVAVASNSTPEGVRISSNVCGPHKCKSQAGKFT 588
332  -DKDYFYHTACD-----ANGETOL-----MYKMAKPKICSEDLGAVKLPAAGV 375
589  CECKNGFTGTGTCHEINIDCESNPCKNGTCTIDGVNSYKC-----ICSDGMEG----- 635

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QY 376 KTHCP-----PCNPG-----PF-----KTNNSTCQPCPYGYSNGSDC 408  
 Db 636 -TYCEFINIDCSKNPCBNGTCDLVNDFCECKNGKMGKTCCHSDSCDEATCNGGTC 694  
 QY 409 -----TRCPAGTBPAYGEYKMMNTLPT--NMETVLGSIINEYKGMTGWE----- 452  
 Db 695 YDEGDTFKCMCPAGMGATCINARNSCLPNCCHNGSTCVSDSDSTCYCKGMEGPTCT 754  
 QY 453 -----VAGDHIYTAGASDNDFMILLVYGFRRPOSVMADTENKEVANITTFETLCSY 507  
 Db 755 QANTDCSPHCYNSGTCVSDDMNYRCECAGAFAGPD-----CR1 793  
 QY 508 NCELYEMVGNSTRNTPVETWWSKSKGOSTYIIIEENTTSFTWAFQRTFHEASRYTN 567  
 Db 794 N-----INECQSSPC-----AFGATCVDE----- 812  
 QY 568 DVAKIYSINTVNVNGVASYC-----RPALEASDVSSCTSCPAGYYIDR 613  
 Db 813 -----INGYRCICPREGSRGPGQEVYGRFC-----TSIRVMDGAKKMD 852  
 QY 614 DSGTCHS-----CEPNTIL--KAHQ--PYGVQACVP-----C 641  
 Db 853 DCNCTCQCLNGKVCYSKVWCGRPCLIIHAKGHNECPAG-HACVPRKEDCHETHPCAAYGEC 911  
 QY 642 GPTKNNKIHSLCYNDCTFSRNTPTPTFNYSFALANTVT 681  
 Db 912 WP-SNOQPVKTKCNSDSYDNCANITFTFKEMAPGLT 950

RESULT 3  
 US-08-460-309-4  
 ; Sequence 4, Application US/08460309  
 ; Patent No. 5837496

; GENERAL INFORMATION:  
 ; APPLICANT: Engvall, Eva  
 ; APPLICANT: Leivo, Ilmo  
 ; TITLE OF INVENTION: Nucleic Acids Encoding Merosin, Merosin  
 ; TITLE OF INVENTION: Fragments and Uses Thereof  
 ; NUMBER OF SEQUENCES: 23  
 ; CORRESPONDENCE ADDRESSES:  
 ; ADDRESSEE: Campbell and Flores  
 ; STREET: 4370 La Jolla Village Drive, Suite 700  
 ; CITY: San Diego  
 ; STATE: California  
 ; COUNTRY: USA  
 ; ZIP: 92122  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: PatentIn Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/460,309  
 ; FILING DATE:  
 ; CLASSIFICATION: 435  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/125,077  
 ; FILING DATE: 22-SEP-1993  
 ; APPLICATION NUMBER: US PCT/US 94/10730  
 ; FILING DATE: 21-SEP-1994  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/472,319  
 ; FILING DATE: 30-JAN-1990  
 ; PRIORITY APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/919,951  
 ; FILING DATE: 27-JUL-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Campbell, Cathryn A.  
 ; REGISTRATION NUMBER: 31,815  
 ; REFERENCE/DOCKET NUMBER: P-LA 9721  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: (619) 535-9001

TELEFAX: (619) 535-8949  
 ; INFORMATION FOR SEQ ID NO: 4:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 3111 amino acids  
 ; TYPE: amino acid  
 ; TOPOLOGY: linear  
 US-08-460-309-4

Query Match 3.1%; Score 172; DB 2; Length 3111;  
 Best Local Similarity 19.2%; Pred. No. 1.4e-05;  
 Matches 183; Conservative 86; Mismatches 331; Indels 354; Gaps 55;

QY 42 TGPBLHACKESY-----HYEYV--ACDSTGSRWVAPHPGGLCTS 81  
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 QY 82 LPDPVKGFECSPFCNAGFELDKD-QSCKPC--AEGRYSLGTGIRFDEMDLPHGFSL 137  
 Db 900 L-----CADGYGDAVDANKCQPCRCNAGGSFS-----EVCH----- 931  
 QY 138 SANMELIDSAESTGNCSTSKWVPRGDIYAFNTDCTATLM-----YAVNLKSGSTV 189  
 Db 932 -----SQTGQCEC-----RANVOGQRCDCKACATFGLQARCVPCNCNPSFSK 975  
 QY 190 NPEYYPDSIIIEFVYNDQ--COPNADSSRMKTEKWEFH-----SVELNR-GANNV 241  
 Db 976 SFD-----CEEGQCMQCPGYGKKCDRCAHGYFNFQEGGCTACCSHLGNMC 1023  
 QY 242 LYWRITAFSVMTKVPKPVLVNRIATITGAVTSECFPKRGTADNGSSFCGLCPANSYS 301  
 Db 1024 -----DPR-----TGRCI-CPNPTIGER-----CSKCAPNTWG 1050  
 QY 302 NKGETSCHQCDPDKYSEKSS--SSCNVR-----PACTDKD 334  
 Db 1051 HSITTGKACN--CSTVSGLDPOCVNVTGQCNCHEKFSKACTECSRGMWVPRCNLCD 1107  
 QY 335 YFY-----THTACDANGETQTLWKWAKPKICSEDEG-AVKLPASGYKTHCPNCPGFP-- 387  
 Db 1108 CFLPDTATTCDBE-----TKKCSQSDQTGCTCKVNEGI--HCDRCRPGFGL 1156  
 QY 388 -KTNNSTCQPCPYGYSNGSDCTRCRACGTBPAYGEYKMMNTLPTN-----METT 436  
 Db 1157 DAKNPLCCSSC--YCFGT-TTQC--SEAGL-IRVWTLKAECTILPLVDEALQHT 1206  
 QY 437 VLSGSIINEYKMGMEVAGSHIYTAGASDNDFMILLVYGF--RPOSVMADTENKEV 494  
 Db 1207 TTKGIVQHPETVA-----HM-----DLMRDLHLEPFYWKLPQ----- 1241  
 QY 495 ARITFEFELCSVNCLELYFMVGNSTRNTPVETWKS--KGOSTYIIIEENTTSFT 550  
 Db 1242 -----FECKKLMAVGGKLYAIFAREBTGSTYNPQVILRGCTPRARIIVRMAAPLI 1297  
 QY 551 WAFQRTFH--EASRKTINDYAKI-----YSINVTVMNGVASYC--P 590  
 Db 1298 GOLRHEHEIEMTEKWKYGDPRVHRVYTRREDPLDILYDIHYILIKATYGFPMQSRISE 1357  
 QY 591 CALEASDVSSCT-----SCPAGYYIDRDSG-TCHSCPNITLKAHDPYG-- 634  
 Db 1358 ISMEVAEQRGTMTTPRADLEKDCDPLGY-----SGLSCHACPLGFRILRSQGGGRTPG 1412  
 QY 635 --VQACVPCPGPTKNNKIHSLCYNDCTFSRNTPTPTFNYSFALANTVTLAGGSPFSK 692  
 Db 1413 PTLGTCCVPC--QCNHSSICLDDPETSTICONCOHHT-----AG--DFCERC 1452  
 QY 693 LKYEHHFTLSL--CGNGRKMVCYTDVNTDLRIPEGSEGSFSTAYVCOAVIIPPEVT 749  
 Db 1453 ALGYGIYKGLPNDCCQACAPLISSNNFSPSCVABG-----LDDVRCYAC--PR 1500  
 QY 750 GYKAGVSSQPVSLADRLIGVTTMDLIGTSPALLFHELSGIDPVIFVFFYSNDVYQSCS 809  
 Db 1501 GYE-----GQYCERCAPGYTG-----SPGNP-----GSGCQDCE 1529  
 QY 810 SGRSTTIRVRCSPDKTVPSGLLPGTCSGT--CDGCFHFLMESAAAPLIC 859

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OY 242 LYMRTLASVYTKYKPVULVRNIAIGVAVTSCFPCKRGKYADKQSSFPCKLPANSYS 301
Db 1024 -----DPK-----TGRCI-CRPNTIGEE-----CSKCAPNTWG 1050
OY 302 NKGFTSCHQCDPKYSEKGS--SSCNVR-----PACTDKD 334
Db 1051 HSITTGKACN--CSTVSGSLDFQCVNVTGQCNCHPFESGAKCTECSGHNMYPRCHLCD 1107
OY 335 YFY--"HTACDANGETOLMYKWKAKICISELEEG--AVKLPSAGVYTHCPKPGGF-- 387
Db 1108 CELFGATATTCDB-----TKKCSSDTTOCTCTCKANVERI--HDCRCPKGFGL 1156
OY 388 -KTNSTICQPCPYGSGYSNSDCTRCPCAGTEPAVGEYKMNLTPTN-----METT 436
Db 1157 DAKNPLOCSSC---YCFGT-TTQC---SEAKGL-RTVWTLKAEQTLIPYDEALQHT 1206
OY 437 VLGSINFEYGMGWENAVADHLYTAAGASDNDFMILTLYVGF--RPPQSVADMTENKEY 494
Db 1207 TTGKIVQHEIYA-----HM-----DLMEEDLHEPFWKLPED----- 1241
OY 495 ARITPEVETLCSVNCLEPYMGVNSRNTMPVETWKS---KGSQSYTIIIEENTTSFT 550
Db 1242 ----FEQKILMAVGKILKAIYFEAREETGFTYNPQYIIRGQPTTHARIYVHMAAPLI 1297
OY 551 WAFQRTTFH--EASRYTNDVAKI-----YSTNVTNVAAGSYCR-----P 590
Db 1298 GQLTREIEMTEREMKYITGDDPRHRTVTRDFDLIDLYHILYILATVYGNFMRQSRIS 1357
OY 591 CALEASDVGSCT-----SCPAGYIYDRDSG--TCHSCPMTILKAHQPYG--- 634
Db 1358 ISMEVAEGRGRTTTPPADLLEKCDCLGY-----SLSCEACLPFYLRBQPGGRTPG 1412
OY 635 --"VQACVPCGPTKNNKIKHSICYNDCTFSRNTPTKPFNNFESALANTVTLAGSPFTSG 692
Db 1413 PLTGTCVP--"QCNHSGSLCDETSICQCNQHT-----AG--DFCERC 1452
OY 693 LKYFHHFTLSL--CGNGRRMSYCTNMVDLRIPEGSEGFSKSIYAVCOAVIIPREVT 749
Db 1453 ALGYGIYKGLPNDQOCACPLISSNNFSPCYAEG-----LDYRCTAC-----PR 1500
OY 750 GKAGVSSQPSYSLADRLIGVTTDMTLDTGITSPEALFHELSGIPDIVIEFYNSNDVYQSCS 809
Db 1501 GYE-----GQYCEACAPGYTG-----SPNP-----GSGCQCE 1529
OY 810 SGRSTTIRVRCSPQRTVPGSLILPGTCSDDT-----CDGCGNPFHLEMSAACPIC 859
Db 1530 CDPYGLPVPDP--VTGFC-----TCRPAIGAKRKCDGCK-HMHAREGMECYVC 1575

RESULT 5
5217870-2
;PATENT NO. 5217870
;APPLICANT: HESSION, CATHERINE A.; LOBB, ROY R.; GOELZ, SUSAN E.
;TITLE OF INVENTION: MONOCLONAL ANTIBODIES AGAINST CDX
;NUMBER OF SEQUENCES: 4
;CURRENT APPLICATION DATA:
;APPLICATION NUMBER: US/07/345,151
;FILING DATE: 28-APR-1989
;SEQ ID NO:2
5217870-2
;LENGTH: 610

Query Match 3.0%; Score 167; DB 6; Length 610.
Best Local Similarity 19.3%; Pred. No. 2.8e-06;
Matches 100; Conservative 46; Mismatches 175; Indels 196; Gaps 22.

OY 230 FHSVELNGNNVLYMRTTASVYTWKPVULVRNIAIGVAVTSECPCKRGKYADKQSS 289
Db 69 YVMIGIRKVVN--W-----YVVGSTQKPL-----TFEAKNNMAGPEPNRQKD 108
OY 290 SPFKICPANSYKKGFTSCHQCDPKYSEKSSSCNVRPACTDKDYFYHTACDANGRTQ 349

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Db 109 EDCVEIYIKREKDYGMNNDERCSKKLALCYTAA-----TNTSCSGHGE-- 153  
 QY 350 LMYWMAKPKICSEDLGAVKLPASGVKTHCPPCNPGEFKNSTCQPC----- 397  
 Db 154 -----CVET-----INNYYCKCPGSGLKCEQIYNCTALESPEHGS LV 192  
 QY 398 ---PYGSYNSGSDCT-----RCPACTEPAVGF 421  
 Db 193 CSHPLGNFYSNSSCISCDRGYLPSSMETQMCSGSEMSAPIPACVNECDVATNPANGF 252  
 QY 422 EYKWMN--TLPTNMTTVLSGINFYKGMTEVYAGDHITTAAGASNDPMILLIV--PG 478  
 Db 253 VECFQNPSPFWNTCTCFDCEEGEELMGAOSLQC-----TSSGMWNEKPTCKAATCRA 306  
 QY 479 FRPQSVADENKEVARITFEVETLCVNCLEYFVGVNSRTPTPYETWKGSKGOSYT 538  
 Db 307 VRQPNQSVKCSHPAGE--FTFKSSCNFTCEEGFML-----QGPAY----- 347  
 QY 539 YIIEENTTSFTW-----AFQRTTEHASKRYTNDVAKIYSINVTNVMNGVASYCRP 590  
 Db 348 -----ECTTQGWTOQIIPVCEAFQCTALSNPERGYM-----CLP 382  
 QY 591 CALEASDVSSCT--SCPAGYI-----DRDSGTC-----HSCPNTIL 627  
 Db 383 SASGSRFRRGSSCFECSCEGFVLKSKRLQCGPTGEMDNKPTCEAVRCDAVHOPPKGLVR 442  
 QY 628 KAHOPYG---VOACV-PCGPSTKNNKIHSLCYNDCT 659  
 Db 443 CAHSPIGFTYKSSCAFCSEEGF---ELHGSTQLECT 476

RESULT 6  
 US-08-365-470-3  
 ; Sequence 3, Application us/08365470  
 ; Patent No. 5632991

GENERAL INFORMATION:  
 ; APPLICANT: Gimbione, Jr., Michael A.  
 ; TITLE OF INVENTION: Antibodies Specific For E-selectin And The Uses  
 ; NUMBER OF SEQUENCES: 3  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSER: STERN, KESSLER, GOLDSTEIN & FOX  
 ; STREET: 1100 New York Ave., NW  
 ; CITY: Washington  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20005

COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent Release #1.0, Version #1.25  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/08/365,470  
 ; FILING DATE: herewith  
 ; CLASSIFICATION: 424  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 08/102,510  
 ; FILING DATE: 05-AUG-1993  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: US 07/850,802  
 ; FILING DATE: 13-MAR-1992  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: Matkowitz, Karen R.  
 ; REGISTRATION NUMBER: 36,351  
 ; REFERENCE/DOCKET NUMBER: 0627.1350003  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 202-371-2600  
 ; TELEFAX: 202-371-2540  
 ; INFORMATION FOR SEQ ID NO: 3:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 610 amino acids  
 ; TYPE: amino acid

TOPOLOGY: linear  
 US-08-365-470-3

Query Match 3.0%; Score 164; DB 1; Length 610;  
 Best Local Similarity 19.3%; Pred. No. 5.3e-06;  
 Matches 94; Conservative 42; Mismatches 163; Indels 188; Gaps 19;

QY 230 FHSVELNRGNVLYWRTTAFSVWTKVPKPVLYNNIITGVAATSECFPCPKPGTYADKQGS 289  
 Db 69 YWIGIRKVVNV--W-----VWVGTKPL-----TEAKKNAPEPPNRRQKD 108  
 QY 290 SFCKLCPANSYKSGETSCHQCDPKYSEKSSSCVNPACTDKDYFYHTACDANGEQ 349  
 Db 109 EDCVEIYIKREKDYGMNNDERCSKKLALCYTAA-----TNTSCSGHGE-- 153  
 QY 350 LMYWMAKPKICSEDLGAVKLPASGVKTHCPPCNPGEFKNSTCQPC----- 397  
 Db 154 -----CVET-----INNYYCKCPGSGLKCEQIYNCTALESPEHGS LV 192  
 QY 398 ---PYGSYNSGSDCT-----RCPACTEPAVGF 421  
 Db 193 CSHPLGNFYSNSSCISCDRGYLPSSMETQMCSGSEMSAPIPACVNECDVATNPANGF 252  
 QY 422 EYKWMN--TLPTNMTTVLSGINFYKGMTEVYAGDHITTAAGASNDPMILLIV--PG 478  
 Db 253 VECFQNPSPFWNTCTCFDCEEGEELMGAOSLQC-----TSSGMWNEKPTCKAATCRA 306  
 QY 479 FRPQSVADENKEVARITFEVETLCVNCLEYFVGVNSRTPTPYETWKGSKGOSYT 538  
 Db 307 VRQPNQSVKCSHPAGE--FTFKSSCNFTCEEGFML-----QGPAY----- 347  
 QY 539 YIIEENTTSFTW-----AFQRTTEHASKRYTNDVAKIYSINVTNVMNGVASYCRP 590  
 Db 348 -----ECTTQGWTOQIIPVCEAFQCTALSNPERGYM-----CLP 382  
 QY 591 CALEASDVSSCT--SCPAGYI-----DRDSGTC-----HSCPNTIL 627  
 Db 383 SASGSRFRRGSSCFECSCEGFVLKSKRLQCGPTGEMDNKPTCEAVRCDAVHOPPKGLVR 442  
 QY 628 KAHOPYG 634  
 Db 443 CAHSPIG 449

RESULT 7  
 US-09-209-668-19  
 ; Sequence 19, Application us/09209668A  
 ; Patent No. 6114517

GENERAL INFORMATION:  
 ; APPLICANT: Monia, Brett P.  
 ; TITLE OF INVENTION: METHODS OF MODULATING TUMOR NECROSIS FACTOR  
 ; FILE REFERENCE: ISPH-0336  
 ; CURRENT APPLICATION NUMBER: US/09/209,668A  
 ; FILING DATE: 1998-12-10  
 ; NUMBER OF SEQ ID NOS: 25  
 ; SOFTWARE: Patentln Ver. 2.0  
 ; SEQ ID NO 19  
 ; LENGTH: 610  
 ; TYPE: PRT  
 ; ORGANISM: Homo sapiens

US-09-209-668-19

Query Match 3.0%; Score 164; DB 3; Length 610;  
 Best Local Similarity 19.3%; Pred. No. 5.3e-06;  
 Matches 94; Conservative 42; Mismatches 163; Indels 188; Gaps 19;

QY 230 FHSVELNRGNVLYWRTTAFSVWTKVPKPVLYNNIITGVAATSECFPCPKPGTYADKQGS 289  
 Db 69 YWIGIRKVVNV--W-----VWVGTKPL-----TEAKKNAPEPPNRRQKD 108  
 QY 290 SFCKLCPANSYKSGETSCHQCDPKYSEKSSSCVNPACTDKDYFYHTACDANGETO 349

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Db 109 EDCEIYIKREKDVGMNDEKSKKILALCYTAA-----TNTSCGHE-- 153
QY 350 LMYKAKPKICSEDELEGAVKIPASGVKTHCPNCPGFFKTNSTCQPC----- 397
Db 154 -----CVER-----INNVTCKCDPGFSGLKCEQIVNCTALESPEHSLV 192
QY 398 ---PYGSYNSGSDCT-----RCPAGTEPAVGF 421
Db 193 CSHPLGNFSYNSCSISCDRGYLPSSMETQCMSSGEMSAPIPCANVVECDATNPANGF 252
QY 422 EYKWN--TLPTNMTVLSGINEFYGMGWVAGDHITTAAGASDNDFMILLVY-PG 478
Db 253 VECFQNGSPFWNTTCFDEEGEFLMGAQSLQC-----TSSGMNDNEKPTCKAVTCRA 306
QY 479 FRPQSVADTENKEVARITFEFTLCSVNCCLYFMVGVNSRINTPVEYTKSGKQSYT 538
Db 307 VRQPNQSVKCSHPAGE--FTKSSCNFTCEGFML-----QGPQV----- 347
QY 539 YIIENTTTSFTW-----AFORTFHEASRKYTNDVAKIYSINVTVMNGVASYCRP 590
Db 348 -----ECTTGOWTQIIPVCEAFQCTALSNPERGYM-----CLP 382
QY 591 CALEASVGSST-SCPAGYI-----DRSGTC-----HSCPNTIL 627
Db 383 SAGSFRYSSCEPSCQGFVLGSKRLQCGPTGEMDNKPTCEAVRCDAVHPKGLVR 442
QY 628 KAHQPYG 634
Db 443 CAHSPIG 449

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RESULT 8  
US-09-009-490A-89  
; Sequence 89, Application US/09009490A  
; Patent No. 6300491  
; GENERAL INFORMATION:  
; APPLICANT: Bennett and Mirabelli  
; TITLE OF INVENTION: Oligonucleotide Modulation  
; NUMBER OF SEQUENCES: 95  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Law Office of Jane Massey Licata  
; STREET: 66 East Main Street  
; CITY: Marlton  
; STATE: NJ  
; COUNTRY: USA  
; ZIP: 08053  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE  
; COMPUTER: IBM PS/2  
; OPERATING SYSTEM: Windows 95  
; SOFTWARE: WORDPERFECT 6.0  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/009,490A  
; FILING DATE: January 20, 1998  
; CLASSIFICATION: 514  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 440,740  
; FILING DATE: May 12, 1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 063,167  
; FILING DATE: May 17, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 969,151  
; FILING DATE: February 10, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 007,997  
; FILING DATE: January 20, 1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 939,855  
; FILING DATE: September 2, 1992  
; PRIOR APPLICATION DATA:

```

; APPLICATION NUMBER: 567,286
; FILING DATE: August 14, 1990
; ATTORNEY/AGENT INFORMATION:
; NAME: Jane Massey Licata
; REGISTRATION NUMBER: 32,257
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (609) 810-1515
; TELEFAX: (609) 810-1454
; INFORMATION FOR SEQ ID NO: 89:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 610
; TYPE: Amino Acid
; STRANDEDNESS: Single
; TOPOLOGY: Linear
; ANTI-SENSE: no
US-09-009-490A-89

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Query Match 3.0%; Score 164; DB 4; Length 610;  
Best Local Similarity 19.3%; Pred. No. 5.3e-06;  
Matches 94; Conservative 42; Mismatches 163; Indels 188; Gaps 19;

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QY 230 FHSVELNGNNVLYWRTAFSVWTKVPRVLYRNALIGVATSECFPCRCGTADQGS 289
Db 69 YWIGIRKRVNV--W-----VMVGTOKPL-----TEAKNMAPGEPNNRQKD 108
QY 290 SFCKLCPANYSNKGSTCHQCDPDKYSKSSGSCNRPACTDKDYFYTACDANGETQ 349
Db 109 EDCEIYIKREKDVGMNDEKSKKILALCYTAA-----TNTSCGHE-- 153
QY 350 LMYKAKPKICSEDELEGAVKIPASGVKTHCPNCPGFFKTNSTCQPC----- 397
Db 154 -----CVER-----INNVTCKCDPGFSGLKCEQIVNCTALESPEHSLV 192
QY 398 ---PYGSYNSGSDCT-----RCPAGTEPAVGF 421
Db 193 CSHPLGNFSYNSCSISCDRGYLPSSMETQCMSSGEMSAPIPCANVVECDATNPANGF 252
QY 422 EYKWN--TLPTNMTVLSGINEFYGMGWVAGDHITTAAGASDNDFMILLVY-PG 478
Db 253 VECFQNGSPFWNTTCFDEEGEFLMGAQSLQC-----TSSGMNDNEKPTCKAVTCRA 306
QY 479 FRPQSVADTENKEVARITFEFTLCSVNCCLYFMVGVNSRINTPVEYTKSGKQSYT 538
Db 307 VRQPNQSVKCSHPAGE--FTKSSCNFTCEGFML-----QGPQV----- 347
QY 539 YIIENTTTSFTW-----AFORTFHEASRKYTNDVAKIYSINVTVMNGVASYCRP 590
Db 348 -----ECTTGOWTQIIPVCEAFQCTALSNPERGYM-----CLP 382
QY 591 CALEASVGSST-SCPAGYI-----DRSGTC-----HSCPNTIL 627
Db 383 SAGSFRYSSCEPSCQGFVLGSKRLQCGPTGEMDNKPTCEAVRCDAVHPKGLVR 442
QY 628 KAHQPYG 634
Db 443 CAHSPIG 449

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RESULT 9  
US-08-185-432-18  
; Sequence 18, Application US/08185432  
; Patent No. 5750652  
; GENERAL INFORMATION:  
; APPLICANT: Artavanis-Tsakonas, Spyridon  
; APPLICANT: Busseau, Isabelle  
; APPLICANT: Diederich, Robert J.  
; APPLICANT: Xu, Tian  
; APPLICANT: Matsuno, Kenji  
; TITLE OF INVENTION: DELTEX PROTEINS, NUCLEIC ACIDS, AND  
; NUMBER OF SEQUENCES: 23  
; CORRESPONDENCE ADDRESS:

ADDRESSEE: PENNIE & EDMONDS  
 STREET: 1155 Avenue of the Americas  
 CITY: New York  
 STATE: New York  
 COUNTRY: U.S.A.  
 ZIP: 10036-2711  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patentin Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/185,432  
 FILING DATE: 21-JAN-1994  
 CLASSIFICATION: 530  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Mistock, S. Leslie  
 REGISTRATION NUMBER: 18,872  
 REFERENCE/DOCKET NUMBER: 7326-006  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: (212) 790-9090  
 TELEFAX: (212) 869-8864/9741  
 TELEX: 66141 PENNIE  
 INFORMATION FOR SEQ ID NO: 18:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 2523 amino acids  
 TYPE: amino acid  
 TOPOLOGY: unknown  
 MOLECULE TYPE: protein  
 US-08-185-432-18

Query Match 2.9%; Score 161.5; DB 1; Length 2523;  
 Best Local Similarity 18.7%; Pred. No. 8.7e-05;  
 Matches 199; Conservative 95; Mismatches 340; Indels 431; Gaps 63;

QY 47 HACKESEHYEYTAADSTGSRMRVAVPHRPGICTSLPDPVKGTGCTGSCFSCNA---GEFLDM 103  
 DB 710 HMCLS-----EYNECSN-----PCJHGAC---HGVNGYKC--DCEAGWSSGNDI 751  
 QY 104 KDOSCK--PCABGRYSLGTGIRFDEWDELPHGFASISANMELDDSAESTGCTSSKWVP 161  
 DB 752 NNNECSNCGMNG---GT-----CKDWTGAVICTCKAGFSGPMQCT----- 789  
 QY 162 RGDYIAFNDECTAT--LMTAVNLKOSGTVNEFYYPDSIIFFEFV-----QNDQ 210  
 DB 790 -----NINESSNCLNHHGTGIDVAGYKCNMLPYTGALCEAVLAPCAGSPCKNGR 842  
 QY 211 COPNADSRMKTTKEGMEFHSVELNRGNVLYWRTTAFSVTKYKPYLVNRIAT--T 267  
 DB 843 CKSEDEFETSCPCPROMOGQCEIDMNE-----CVNRP--CRNGATCONT 886  
 QY 268 GVAVTSECFP-----CKP-----GTADKQSSCKCLCPANYSNKETSC 308  
 DB 887 NGSYKCKCKPGYGRNCENDIDCCQPPCHNGSSCSGDIIMFPCN--CPAGFRGPKCEDI 945  
 QY 309 HQCDPKYSEKSSSCNVRACIDKDYFTHTA-----CDANGELTQMTYMAKPKIC 360  
 DB 946 NEC-----ASNPCKNGANGCTDCVNSTCTCQPGFSGIHCSNPD-----C 986  
 QY 361 SED--LEGAVLPLPAGVYKTHCPPCNPGFECT-----NSTQCPQPGYSYS 403  
 DB 987 TESSCFNGGICI--DGINITTCQCPGFTGTSYCOHIDNECDKRLCLNGGTCDQ--SYGTVK 1043  
 QY 404 NGSDCTRCAPAGTEPAVGE--YKWNITLPTNMETTVLSGINF--EYKGMGMVEVAGD 456  
 DB 1044 -----CT--CPQG--YTGLNCONLVRMCDSSPKCKNGKCMQOTNNFYRCECK--SGW----- 1088  
 QY 457 HIYTAAGSNDDEMLITLVPGFRPQSVAMADTENKEVABITFEVETLCSVNCLELYPMVG 516  
 DB 1089 -----TGYYCOVPSVSCV----- 1102  
 QY 517 VNSRTNPVETWKGSKGKOSYTYIIEENTTTSFTWAFQRTTFHASKRYINDVAKIYSIN 576

DB 1103 -----AAKQGVDIHLCRNSGCMCYDTGNTHRCQAGYT----- 1137  
 QY 577 VTNWANGVASYCR-----PALASDVGSST-----SCPAGYIDBSGCTSCSPN 624  
 DB 1138 -----GSYCEQVDECSPPNCCONGATCTDYLGSYSCCYAGHGVNCSSEINDC----- 1186  
 QY 625 TLKHAHQPYGVQACV-----PCGPGTKNNKIH--SLCYNDCTESRNTPTRTFNVNSA 675  
 DB 1187 ---LSHPCONGCTCIDLINTYKSCSPRTQG--VHCEIWNDDCT----- 1225  
 QY 676 LANTVTLAGPSFTSGKLYFHFTLS--LCGNQGRKMSYCTDNYDLRIPEBESGFSKSI 734  
 DB 1226 -----PFYDSFTLEPKCFNNGK-----CIDVY----- 1247  
 QY 735 TAYVCAVILIPREVTGKAGVSSQPVSLADRLIGVTTMDITDITSPALFIHLESLGIPD 794  
 DB 1248 GGYNC---ICPPGEPVG-----BRGSDVNEC---LSNPC-----DSRGTON 1282  
 QY 795 VIFFEYRSNDYTQSCSGSRSTTIRVCSPOKTVPGSLLPETGSDTCDDGCFHFLMESAA 854  
 DB 1283 CIQLV--NDYRCERQGFGR---RC--ESVVDGCKGMP--CRNG-----G 1319  
 QY 855 ACPICSVADYHAIVSSCVAGIQTYYWRREPILCS-----GG--ISLPQRYTICKTID 906  
 DB 1320 TCVAASNTF--RGFLCKCPGPDGATCEY--DSFTCSNLRCONGGTCTISVLTSKCVSE-- 1375  
 QY 907 FWLKVGISAGTCTAIIILTVLT--CY-----FWKN-----OKLEYKY 941  
 DB 1376 -----GYTGATQYQPVISPASHNFCYNGGTGQFFAEPEFPQCCPKFNGLFCHIIDYEF 1430  
 QY 942 -SKLVNMTIKDCDLPAADSCAIMEGEDVDDLFTS--KNHSIG 983  
 DB 1431 PGIGKNTTPDND-----DICENECSELADNKCVCANCNHAG 1471

RESULT 10  
 US-08-899-232-3  
 ; Sequence 3, Application US/08899232  
 ; Patent No. 6436650  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Artavanis-Tsakonas, Spyridon  
 ; TITLE OF INVENTION: ACTIVATED FORMS OF NOTCH AND METHODS BASED THEREON  
 ; FILE REFERENCE: 7326-046  
 ; CURRENT APPLICATION NUMBER: US/08/899,232  
 ; CURRENT FILING DATE: 1997-07-23  
 ; NUMBER OF SEQ ID NOS: 4  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 3  
 ; LENGTH: 2523  
 ; TYPE: PRT  
 ; ORGANISM: Xenopus sp.  
 US-08-899-232-3

Query Match 2.9%; Score 161.5; DB 4; Length 2523;  
 Best Local Similarity 18.7%; Pred. No. 8.7e-05;  
 Matches 199; Conservative 95; Mismatches 340; Indels 431; Gaps 63;

QY 47 HACKESEHYEYTAADSTGSRMRVAVPHRPGICTSLPDPVKGTGCTGSCFSCNA---GEFLDM 103  
 DB 710 HMCLS-----EYNECSN-----PCJHGAC---HGVNGYKC--DCEAGWSSGNDI 751  
 QY 104 KDOSCK--PCABGRYSLGTGIRFDEWDELPHGFASISANMELDDSAESTGCTSSKWVP 161  
 DB 752 NNNECSNCGMNG---GT-----CKDWTGAVICTCKAGFSGPMQCT----- 789  
 QY 162 RGDYIAFNDECTAT--LMTAVNLKOSGTVNEFYYPDSIIFFEFV-----QNDQ 210  
 DB 790 -----NINESSNCLNHHGTGIDVAGYKCNMLPYTGALCEAVLAPCAGSPCKNGR 842  
 QY 211 COPNADSRMKTTKEGMEFHSVELNRGNVLYWRTTAFSVTKYKPYLVNRIAT--T 267  
 DB 843 CKSEDEFETSCPCPROMOGQCEIDMNE-----CVNRP--CRNGATCONT 886

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QY 268 GVAATSECF-----CKP-----GTADKOGSSPCKLCPANSYSNKGTSC 308
D 887 NGSYKCNCKPGYTRNCNEMDIDCQPNPCHNGSSCSGIMWFON-CPAGEKPGCEBDI 945
QY 309 HQCPDCKYSEKSSCNVPRACDXYFYHTA-----CDANGETOLMYKAKPKIC 360
D 946 NEC-----ASNPKCKNGANCTDCVNSYSTCQPGFSGIHCEBNTPD-----C 986
QY 361 SED--LEGAVKLPASGYKTHCPNCPNCEFFK-----NSTCQCPYGSYS 403
D 987 TESSCFNGGICI--DGINTFTCCCPGFTGYSYCOHDINECDKPCJLNGTQOD--SYGYK 1043
QY 404 NGSDCTRCBPATBPAGFE-----YKMMNTLPTNMETTVLSGINF-----EYKMTGMEVAGD 456
D 1044 -----CT-CPQG-----YTGILNCONLVRMCDSSPCNNGCKMQNTNFFYRCECK--SGM----- 1088
QY 457 HIYTAASANDMILTLVYVGRPRQSVADENKEVARITVFETLCSVNCLEYMVG 516
D 1089 -----TGVCYDVSVCSEV----- 1102
QY 517 VNSRTNPTVETWKGSKGOSYTIIEENTTSFTMAFORTTEHARXKTYNDVAKIYSIN 576
D 1103 -----AKQGVQIVHLCKRNSGMCVDTGTHFCRQAGT----- 1137
QY 577 VTVMWGVASYCR-----PCALEASDVSSCT-----SCPAGYIDRDSGTCHSCPNN 624
D 1138 -----GSYCEQYDECSFNPQNGATCTDYLGSYCEVAGYGVNCSEIINC----- 1186
QY 625 TILKAHQPVQACV-----PGPRTKNNKH--SLCYNCTBSRNTPTFTFNYSFA 675
D 1187 -----LSHPCQNGCIDLIMTYKCSCPRTQG--VHCEINVDCT----- 1225
QY 676 LANTVTLAGSPFTSKGLYFHHFTLS--LCGNQGRKMSYCTNVDLIRIPESGESFSKI 734
D 1226 -----PFYDSFTLEPKCFNNK-----CIDRV----- 1247
QY 735 TAYCAOAVIIPPEVNGYKAGVSSQPSLADRLIGVTTMTLDGITSPELPHLESGLJPD 794
D 1248 GGNK-----ICPFGVG-----ERCEGVNCE-----LSNPC-----DSRGTQN 1282
QY 795 VIEFYRSDVNTGSSGSRSTTIRVCSPOKTYVPSILLPTGSDTCOGCQHFLMESAA 854
D 1283 CIOLV--NDYRCEGRQFTGR--RC--ESVYDGCKMP--CRNG-----G 1319
QY 855 ACPILSVADYHAIIVSSCAVAGIOKTYVMBEPLCS-----GG--ISLPEQRTVICKTID 906
D 1320 TCVAASNTE--RGFICCPGFGDACEY--DSRTCSNLRCONGCTCISVLTSSKVCSE-- 1375
QY 907 FWLKGISAGTCTALLTVLT-----CY-----FMKKN-----OKLEYKY 941
D 1376 -----GYTGATCQYVYISPCASHPCYNGTGCOFFAEHPFCQCPKNNGLFCHILDEYF 1430
QY 942 -SKLVMAATLDCDLPAADSCAIMGEDVEDDLFTS--KNHSLG 983
D 1431 PGGLCKNITPPDND--DICEBQCSSELADNKCVCNANCNHAG 1471

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## RESULT 11

US-08-317-450B-15

Sequence 15, Application US/08317450B

Patent No. 5660982

GENERAL INFORMATION:

APPLICANT: TRYGVASON, KARL

APPLICANT: KALLUNKI, PEKKA

TITLE OF INVENTION: LAMININ CHAINS: Diagnostic and

NUMBER OF SEQUENCES: 19

CORRESPONDENCE ADDRESS:

ADDRESSEE: BANNER &amp; ALLEGRETTI, LTD.

STREET: Ten South Wacker Drive

CITY: Chicago

```

STATE: Illinois
COUNTRY: USA
ZIP: 60606
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08-317-450B
FILING DATE: 04-OCT-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Chao, Mark
REGISTRATION NUMBER: 37,293
REFERENCE/DOCKET NUMBER: 94,778
TELECOMMUNICATION INFORMATION:
TELEPHONE: 312-715-1000
TELEFAX: 312-715-1234
INFORMATION FOR SEQ ID NO: 15:
SEQUENCE CHARACTERISTICS:
LENGTH: 1111 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-317-450B-15

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Query Match 2.9%; Score 160.5; DB 1; Length 1111;
Best Local Similarity 17.9%; Pred. No. 2.9e-05;
Matches 123; Conservative 80; Mismatches 241; Indels 245; Gaps 33;

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QY 275 CEPCKPGYADKOGSSPCKLCPANSYSNKGTSCDHPDKYSKSSGSSCNVPRAC-- 331
D 65 CEKCKNGYRIHREDR-CLPNCNS--KSLSA-KCD-----NSGRKSCRGYVGAR 112
QY 332 -DKDYFHTACDANGETOLMYKAKPKICSED--LEGAVKLPASGVKTRCP--CN 383
D 113 CDRLCPGFHMLTDAG-----CTQDQRLDSDSCDDOPAGIACPACAGRYCK 158
QY 384 PGFFKTNNSQCPQPVYSYS-----NGSDCTRCBPATBPAGFEYKMMNTLPTNMETTVLS 439
D 159 PA--VTGERCDRCRSYTYNLDGNGPBGCTQC-----FCYGHASCSRSASAEYSVK 206
QY 440 GINEFYKMTGMEVA-----GDHITYTAGASDNPFMILLTVVPGFRP--P 482
D 207 ITSTFHQDVQWKAIVQNGSPAKLQWQRHODVFSQAQLDPYEVAPAKFLQMOVSYG 266
QY 483 QSVWADTENKEVARITVFETLCSVNCLEYMVGVNSRNTPTVETWKGSKG-----Q 535
D 267 QSLSFYRVDGRGHRPSAHDI-----LEGAGLRITAPLM--PLGKTLPGCLTK 313
QY 536 SYTYIIEENTTSFTMAFO-----RTTFHASKRYINDVAKIYSIN 577
D 314 TYTFRLMEHNSN--WSPQSLFYEFRLRLNLTALRIRATYGERYSTGYIDNVT--LISA 368
QY 578 TNVMWGVASYCRPCALEASDVSSCTSCPAGY-----YIDRS 615
D 369 RPYSGAPAPWVEQCICPVYKGGQFCQDCASGYKRDARSARLPFGTCIPKCGGACDPRT 428
QY 616 GTCHSCPNTILKA-----HQPYQACVPQCGGTNNKHISLICYNDCTFSRNTPTLR 667
D 429 GDCYSGDENDEIECADCPIGFYNDPDPKRCPCP-----CHN----- 466
QY 668 TFVNFSAALANTVTLAGGSSFTSKGLYFHHFTLSLGN-----QGRKMSYCTDNTVTLR 722
D 467 --GFSCSVIPETFEV-----VCNNCPGVTGARELCADADY--FG 502
QY 723 IPEGSEGFSSKSTAYVQAVIIPPEVYGYKAGVSSQPSLADRLIGVTTMTLDG----- 777
D 503 DFEGEHPVRPCQPCQNS--NVDPSASGNCRLTGRCCLKINTAGIYICDCKAGYFDDP 561
QY 778 -ITSPELPHLESGLIPDYVIEFYRSDNTGSCSSRSRTTIRVCSPOKTYVPSILLPGTC 836

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COUNTRY: U

QY	275	CFFCKGKTADKQSSFFCKLCPANSYKNGEHCODPDKYSKSSGSSCNVPACT----	331
Db	65	CECKNGEYRHRNRDR-CLPCMCNS-----KGLSLA-RCD-----NSGRSCRCPEYTGAR	112
QY	332	-DKDYTYTHPADCANGETOLMTKMKPKICSED---LEGAVKLPASGVKTHCP-----CN	383
Db	113	CDRLCPGFMHLIDAG-----CTQDRLLDKSCDDCPADIACPDAGRVCYCK	158
QY	384	PGFFKTNNSTQCPQCPYGSY---NGSDCTCPCAGTERPAVGFEKMMNTLPTMETTVLS	439
Db	159	PA---VTGERCDRCSGYIINDGPNBECTQC-----FCYGHASCRSSSAEYSHVK	206
QY	440	GINEFEKGMTGNEVA-----GDHIYTAGASDNDPMILLTVVPFRP-----P	482
Db	207	ITSTFHQDVGDKKAYQNRNGSPAKLQMSQRHODVSSAQRLDPIYFAAPAKFLNQGVSTG	266
QY	483	QSMADTENEKEVARITFEVPEFLCSYNCELYFMGVNSRNTPVETWKGSGK-----Q	535
Db	267	QSLSEFYRDQGRHPSADHY-----LEGAGLRITAPLM-----PLGKTLPCGLRK	313
QY	536	SVYIIIEENTTTSFTWAO-----RTFHHASKRYINDAKIITSNV	577
Db	314	TYTFRLNEHPSNN--WSQOLSYFEYRRLRLNLTALRITRAYGEYSTGYIDNT--LISA	368
QY	578	TVMNGVASYCPCALAEASDVSSGCTSCPAGY-----YIDRS	615
Db	369	RPVSGAPAPMWBOGCLCPYGYGQFCQPCQASQYKRDSARLGFCTCLPCMCQGGGACDPRT	428
QY	616	GTCHSCRPNTILKA-----HQPYVQACPCPGPGETKNKIHSLCYNDCTFSRNTPTLR	667
Db	429	GCYCGDGENPDIECADCPIGFYNDPHDRSCPCP-----CHN-----	466
QY	668	TENVNPSALANTVTLAGSPFTSKGLKYFHHLFLLSCGN-----QCRKKSVCYTDNVTDLR	722
Db	467	--GFSCSVIPEETEEV-----VCNNCPRVGTGARCELCADGY--FG	502
QY	723	IPEGSGSGFSKITAYVCOAVIIPPEVNGYKAGVSOPVSLADRLIGVTTDMTLDG-----	777
Db	503	DPFGHGHWRCRCQRCQCNCS--NWDPSASGNCNDRLTGKCLACIHNNTAGITCYCDQCKAGYFSDP	561
QY	778	-ITSABELFHLSESLGIDPIVIFYFRKSDNTQSCSSGSRSTTIRVRCSPKQTVPGSLLPETC	836

Db 562 LAPNPA-----DKCRAN-----CNPMGSEP-----VGCR 586  
 QY 837 SDGTC-----DGNFHEMESAAACPLC 859  
 Db 587 SDGTCVCKPGFGGPNCE---HGAFCSPAC 612

## RESULT 15

US-08-185-432-17  
 Sequence 17 Application US/08185432

Patent No. 5750652

GENERAL INFORMATION:

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APPLICANT: Busseau, Isabelle

APPLICANT: Diederich, Robert J.

APPLICANT: Xu, Tian

APPLICANT: Matsuno, Kenji

TITLE OF INVENTION: DELETED PROTEINS, NUCLEIC ACIDS, AND

TITLE OF INVENTION: ANTIBODIES, AND RELATED METHODS AND COMPOSITIONS

NUMBER OF SEQUENCES: 23

CORRESPONDENCE ADDRESS:

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COUNTRY: U.S.A.

ZIP: 10036-2711

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/185,432

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INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:

LENGTH: 2556 amino acids

TYPE: amino acid

TOPOLOGY: unknown

MOLECULE TYPE: protein

US-08-185-432-17

## Query Match

2.9%; Score 160; DB 1; Length 2556;

Best Local Similarity 20.0%; Pred. No. 0.00012;

Matches 208; Conservative 102; Mismatches 339; Indels 390; Gaps 67;

QY 1 MAEPGHS-HHLSARYRGTERIRIPMLRLIMAGT-----AFQYTOGTGP-----EL 46  
 Db 590 LCRPGYTGHHCTENINESSOPC-RLW-----GTCODPDNAYLCECLKGTGPFACETNL 642  
 QY 47 HAKRESEHYEYTAGDS-----TGSRMVAVPHTPGICTSLPDPVAKTEC----- 91  
 Db 643 DDCASS-----PCDSGCLDKIDYEGACBPRTTGSMSNNSNIDECAAGNCHNGTCD 695  
 QY 92 ---SFSCKAGE-----FLDMKQSCKPCAGERYSLGTGIRFEDWDELPHGFASLSANM 141  
 Db 696 GINGFTCRCPREGYHDEPTCLSEVNECNSNPCVHGAC-----WDSL-NGY----- 737  
 QY 142 ELDDSAESTGCTSKTSSKWPVRGDYIAFNTECTATILMAVNLKQSGTVAFEEYYPDSII 201  
 Db 738 KCDGDPGWSGTNCD-----INNNECESN-PCVN---GDTCK---DMTSGIV 776

QY 202 ---FEFVQNDQCOBNADDSRMKTTTEKGEHSEYELNRGNVLIWRTTAESVTKYKPK 258  
 Db 777 CTCWEGF-SGPMQOTININECASNPCLNKGTCIDDDVAGIKCNCLIFY----- 821  
 QY 259 VLVRNIAITGVAVYTSCEPCPKGTAD-----KQSSFEKLCIPANSYSKGETSCHQC 311  
 Db 822 ---TGATCEVYVLAFCAPSPCRNGECROSEDESFSCVCP--TAGAKGOT---C 867  
 QY 312 DPKYSEKSSSCNVRPACTDKDYFYTHACDA-----NGETOLMYKNAKP---KICSE 362  
 Db 868 EVD-INECVLSPCMHGAQSCQNTHGXY-RCHCQAGYSGRNCETDIDDQWPNPCNNGSGCTD 925  
 QY 363 DLEGAVKLPLASGVKTHCPNCPNGPEKT-----NNSTQPCPYSGSYNGSDCT----- 409  
 Db 926 ---GINTAFCCCLPGLFPNGTCEEDINCAADPC-----RNGANTDCVDST 969  
 QY 410 -RCPACTEPAVGEFKWMNTLPTNMTTVLSGINEYKMGMTWEVAGDHITTAASDND 468  
 Db 970 CTCPAGFS---GIHCE--NNTPDCTESSCFNG-----GTCVDGINSEFC----- 1008  
 QY 469 FMILTLVPGF-----RPPQSVMAADT--ENKEVARIITVEETLCSVNCLEY 512  
 Db 1009 ---LCPPGFTGSGYQHVYNECDSP--CLLGTCQDGRGLHRTCP--QGYTGRNCOYL 1060  
 QY 513 FMGVNSRTNTPVETWKGSKGQSYT-YLIE-ENITTSFTMAFQRTTDEASRKYTNDVA 570  
 Db 1061 ---VHMCDSSPCK--NGKCMQHTHTQYRCDEPBGWTLGYCDVPSVSCVAAQROGVDA 1114  
 QY 571 KIYSIVNTVMNGVASYCR-----PALASDVGSST-----SCPA 607  
 Db 1115 RLCQHGCLCYDAGNTHHCRQAOAGYTSYCEDLVEDESPSPCONGACCTVDYLGYSCKCYA 1174  
 QY 608 GXY-----ID-----RDSGTCHSCPNTILKAHQYGYQACVPCGPTKNNKIHSL 653  
 Db 1175 GHYGVCMSEIDELCSHPONGSTCLDL-PNT-YKSCSMWGTG-VHC-----EI 1221  
 QY 654 CYNDCTFSRNTPTPTFNFNFSALANTVTLAGGPFSTSKLKTFFHFTLSLCNQGKRMAY 713  
 Db 1222 NVDDC---NPVPDVPVSWs-----PKCFNNG---T 1244  
 QY 714 CTQNVVDLRIPEBESGFSKITAAYCOAVIIPPEVYAGAVSSQPSIADRLIGVTTDM 773  
 Db 1245 CVDQV-----GGISCTC---PPEVG-----EREGGVNCC 1272  
 QY 774 TLGITSPEALFHLSEIGIPDIFFYRSNDVYQSCSGRSTTIRVRCSPQKTVPGSLLP 833  
 Db 1273 ---LSNRC-----DARGTQNCV--QRYNDFHCECRAGHTGR--RC--ESVINCCKGRP 1316  
 QY 834 GTCSDGTCDGCMFHEMESAAACPLCSVADYHA--IYSSCVAGIQKTYVWREPKIC--- 888  
 Db 1317 ---CKNG-----GTCAVAVSNTARGFICKCPAGFEAT--CENDARTCGSL 1356  
 QY 889 ---SGG---ISLPEQRYVIC 902  
 Db 1357 RCLNGGTCISGPPSPCTLC 1375

Search completed: March 12, 2003, 02:04:42  
 Job time : 37 secs

